

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252449

Luminaire Tested: **LE\_6B10D010 EC6B10209040 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B10D010 EC6B10209040 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 978.7 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

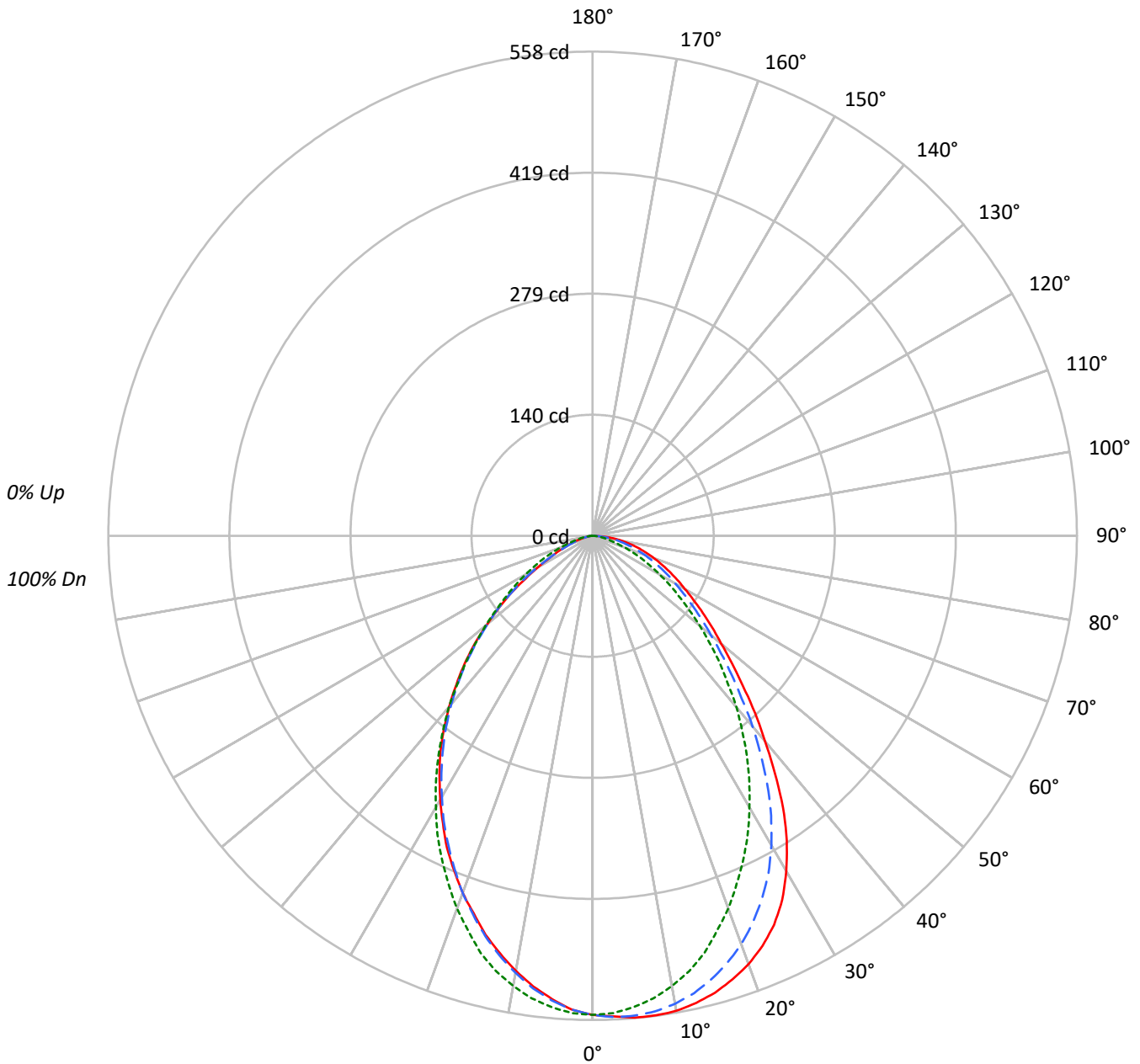
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35																			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	36019	36019	36019
5°	36511	35705	35103
10°	36833	34906	33733
15°	36824	33622	32164
20°	36477	31735	30402
25°	35604	29586	28592
30°	33629	27210	26457
35°	30472	24682	24371
40°	26316	21939	21879
45°	22568	19099	19246
50°	19609	16341	16118
55°	17619	13774	12910
60°	16023	11613	9512
65°	15036	9587	6978
70°	14325	7458	5131
75°	13738	5420	3479
80°	12962	3757	2292
85°	11528	2321	1123



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	5.3
10°-20°	141.5	14.5
20°-30°	196.4	20.1
30°-40°	203.4	20.8
40°-50°	167.2	17.1
50°-60°	114.9	11.7
60°-70°	66.0	6.7
70°-80°	30.4	3.1
80°-90°	7.4	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	389.5	39.8
0°-40°	592.9	60.6
0°-60°	875.0	89.4
0°-90°	978.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	978.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	552	552	552	552	552	
5°	558	555	545	538	536	53
15°	545	529	498	478	476	154
25°	495	462	411	393	397	226
35°	383	351	310	301	306	237
45°	245	226	207	205	209	191
55°	155	140	121	114	114	139
65°	97	85	62	44	45	97
75°	54	43	22	14	14	58
85°	15	11	3	2	2	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	554.5	559.0	556.0	555.2	556.8	556.8	556.8	554.5	556.0	553.8	555.2
5°	557.5	561.4	558.2	556.8	558.2	559.0	556.8	555.2	557.5	554.5	555.2
7.5°	557.5	561.4	558.2	557.5	558.2	558.2	557.5	554.5	556.0	552.9	552.9
10°	556.0	559.0	556.0	554.5	555.2	554.5	554.5	550.6	551.4	547.5	547.5
12.5°	551.4	555.2	551.4	549.9	549.9	549.9	547.5	544.5	545.2	540.6	539.9
15°	545.2	548.4	544.5	543.0	543.0	542.2	540.6	536.0	536.0	531.5	529.1
17.5°	536.0	539.1	536.0	533.8	533.0	531.5	529.9	525.4	523.8	518.4	516.1
20°	525.4	527.6	524.5	522.2	520.8	519.1	516.1	511.5	510.0	504.6	500.8
22.5°	511.5	514.6	510.0	507.6	506.1	503.9	500.8	496.1	493.9	487.0	482.4
25°	494.6	496.1	492.4	490.0	487.0	485.5	483.1	477.0	474.8	467.0	461.6
27.5°	473.1	474.8	470.1	468.6	464.8	463.2	460.1	454.8	451.8	444.0	438.6
30°	446.4	447.9	444.8	442.5	439.4	436.4	434.0	428.8	424.1	416.4	411.9
32.5°	416.4	418.8	415.6	412.6	407.2	408.0	404.1	398.8	395.0	388.0	382.6
35°	382.6	384.2	380.4	379.6	376.5	373.5	369.6	365.8	363.5	355.9	351.2
37.5°	345.1	348.9	345.1	342.0	340.5	338.2	335.9	330.5	329.0	324.4	318.2
40°	309.0	311.4	309.0	306.0	303.8	303.8	300.6	297.5	293.8	289.1	286.9
42.5°	276.9	275.4	274.5	273.0	270.0	269.1	268.4	264.6	262.2	257.6	253.9
45°	244.6	245.4	243.9	243.1	240.8	239.2	237.8	234.6	233.9	229.2	226.2
47.5°	217.8	217.0	215.5	215.5	214.0	212.4	210.9	208.6	207.9	204.0	200.9
50°	193.2	194.0	193.2	192.5	190.2	189.4	187.9	186.4	184.9	181.0	177.9
52.5°	173.4	172.5	171.8	171.8	169.5	168.8	167.1	165.6	164.1	160.2	158.0
55°	154.9	154.9	154.1	153.4	151.1	150.2	149.5	148.0	145.8	142.6	140.4
57.5°	138.0	138.0	137.2	136.5	135.0	135.0	133.5	131.9	130.4	127.2	124.2
60°	122.8	123.5	122.8	121.9	120.4	120.4	119.6	117.4	116.6	112.8	110.4
62.5°	109.6	109.6	109.6	108.9	108.1	106.6	106.6	104.2	102.8	100.5	97.4
65°	97.4	97.4	97.4	96.6	95.1	94.4	93.5	92.0	90.5	88.2	85.1
67.5°	85.9	85.9	85.9	85.1	83.6	82.9	82.0	81.2	79.0	76.8	73.6
70°	75.1	75.1	74.4	73.6	72.9	72.1	71.4	69.8	68.2	65.1	62.9
72.5°	64.4	64.4	64.4	62.9	62.1	62.1	60.6	59.9	58.2	55.2	52.9
75°	54.5	53.6	53.6	52.9	52.1	51.4	50.6	49.9	47.5	46.0	43.0
77.5°	44.5	44.5	43.8	43.0	43.0	42.1	41.4	39.9	39.1	36.8	34.5
80°	34.5	34.5	34.5	34.5	33.8	33.0	33.0	31.5	30.6	28.4	26.9
82.5°	26.1	25.2	25.2	25.2	24.5	23.8	23.8	23.0	22.2	20.8	19.1
85°	15.4	14.6	14.6	14.6	13.8	13.8	13.0	13.0	12.2	10.8	10.8
87.5°	4.6	4.6	5.4	5.4	4.6	4.6	4.6	4.6	4.6	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	553.8	556.0	552.9	552.1	555.2	553.8	552.9	551.4	552.1	550.6	548.4
5°	552.9	556.0	552.1	549.9	553.8	551.4	549.9	548.4	548.4	545.2	543.8
7.5°	550.6	552.1	548.4	546.0	548.4	546.0	544.5	542.2	541.4	537.6	535.2
10°	544.5	546.0	541.4	538.4	540.6	537.6	535.2	533.0	531.5	526.9	523.8
12.5°	536.0	536.9	531.5	527.6	529.1	526.9	523.0	520.0	518.4	513.9	510.0
15°	524.5	525.4	519.1	513.9	515.4	512.2	507.6	504.6	502.2	497.8	492.4
17.5°	510.8	510.0	503.1	497.8	498.5	494.6	490.0	485.5	482.4	477.0	473.1
20°	495.4	493.1	485.5	479.2	480.1	475.5	470.1	465.5	461.6	457.1	451.8
22.5°	476.2	473.1	466.2	458.6	459.4	455.5	447.9	444.0	440.2	434.0	429.5
25°	455.5	450.9	444.0	436.4	436.4	431.8	425.6	421.0	417.1	411.0	405.6
27.5°	431.0	428.8	419.5	413.4	412.6	408.0	402.6	397.2	392.6	387.2	381.9
30°	404.1	400.4	393.4	386.5	385.0	381.1	375.8	369.6	366.6	361.2	356.6
32.5°	375.8	372.0	364.2	357.4	356.6	353.5	348.9	342.8	339.8	335.9	332.9
35°	343.6	342.0	334.4	329.0	329.0	325.9	321.4	316.0	313.6	309.9	306.0
37.5°	312.9	310.6	303.8	299.1	299.1	295.2	290.6	288.4	286.0	283.0	280.6
40°	280.6	279.1	273.8	269.1	270.0	266.9	263.8	260.8	259.2	257.6	255.4
42.5°	250.8	249.2	245.4	241.6	241.6	239.2	236.2	233.9	232.4	230.1	229.2
45°	223.9	221.6	218.6	214.8	214.8	212.4	210.9	209.4	208.6	207.0	204.8
47.5°	197.9	196.4	193.2	189.4	189.4	189.4	186.4	184.0	184.0	182.5	181.8
50°	175.6	173.4	171.0	168.0	168.0	166.4	164.1	161.9	161.9	161.0	159.5
52.5°	154.9	153.4	150.2	147.2	147.2	145.8	143.4	142.6	141.9	139.6	138.8
55°	137.2	135.8	133.5	129.6	128.9	128.1	125.8	124.2	123.5	121.1	121.1
57.5°	121.1	119.6	115.8	113.5	112.8	111.2	108.9	107.4	106.6	105.1	103.5
60°	107.4	105.1	102.0	98.9	98.1	96.6	94.4	92.8	92.0	89.0	87.4
62.5°	94.4	92.0	89.0	85.9	85.1	83.6	80.5	79.0	77.5	74.4	72.9
65°	82.0	79.8	76.8	73.6	72.1	71.4	68.2	66.0	64.4	62.1	59.0
67.5°	70.5	68.2	65.1	61.4	61.4	59.0	56.8	54.5	52.1	49.9	47.5
70°	59.9	57.5	54.5	51.4	50.6	49.1	46.8	43.8	42.1	39.1	36.8
72.5°	49.9	47.5	44.5	41.4	40.6	39.1	36.8	33.8	31.5	29.1	26.9
75°	40.6	38.4	35.2	33.0	32.2	30.6	28.4	25.2	23.0	21.5	19.1
77.5°	32.2	29.9	27.6	25.2	24.5	23.0	20.8	19.1	16.9	15.4	13.0
80°	24.5	23.0	20.8	19.1	18.4	16.9	15.4	13.0	11.5	10.0	9.2
82.5°	17.6	16.1	14.6	12.2	12.2	10.8	10.0	8.4	6.9	6.1	5.4
85°	10.0	8.4	7.6	6.9	6.1	6.1	5.4	4.6	3.9	3.1	3.1
87.5°	3.1	3.1	2.2	2.2	2.2	2.2	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	548.4	549.1	547.5	549.1	547.5	548.4	546.8	548.4	546.8	548.4	545.2
5°	543.0	543.0	540.6	542.2	540.6	541.4	538.4	539.1	537.6	539.1	536.0
7.5°	533.8	534.5	530.6	532.2	529.9	529.9	527.6	528.4	526.1	526.9	524.5
10°	523.0	522.2	518.4	520.0	516.9	516.9	514.6	514.6	511.5	512.2	509.2
12.5°	507.6	506.9	502.2	503.9	500.8	500.8	498.5	498.5	495.4	497.0	493.9
15°	490.0	489.2	484.6	485.5	482.4	482.4	479.2	480.1	477.8	479.2	476.2
17.5°	470.1	469.4	464.8	465.5	461.6	462.4	460.1	459.4	457.9	458.6	456.2
20°	449.4	447.9	443.2	444.0	442.5	440.2	438.6	439.4	437.9	439.4	437.1
22.5°	427.9	424.9	421.0	421.0	419.5	419.5	417.1	418.8	415.6	418.0	416.4
25°	403.4	401.1	398.0	399.5	396.5	396.5	394.1	395.0	393.4	395.0	393.4
27.5°	379.6	378.1	373.5	375.0	372.8	373.5	371.1	372.0	371.1	372.8	371.1
30°	354.2	353.5	350.5	350.5	349.8	348.9	348.1	348.1	347.4	349.8	348.1
32.5°	330.5	328.2	325.1	327.5	323.6	325.9	324.4	325.9	324.4	325.9	325.1
35°	306.0	305.2	301.4	302.1	301.4	301.4	300.6	300.6	300.6	302.9	302.9
37.5°	279.9	279.1	276.9	277.6	276.1	275.4	275.4	276.9	276.9	278.4	278.4
40°	254.6	255.4	253.1	253.1	252.2	252.2	252.2	253.9	253.1	254.6	253.9
42.5°	229.2	229.2	227.0	227.8	227.0	227.8	227.8	229.2	229.2	230.1	229.2
45°	205.5	205.5	204.8	205.5	204.0	204.8	204.0	205.5	204.8	205.5	205.5
47.5°	181.8	181.8	181.8	181.0	181.0	181.0	181.0	181.0	180.2	181.8	181.0
50°	159.5	160.2	159.5	159.5	158.8	159.5	158.8	158.8	157.2	158.0	158.0
52.5°	139.6	139.6	138.0	138.0	138.0	137.2	137.2	137.2	136.5	136.5	135.0
55°	120.4	120.4	118.9	118.9	118.1	117.4	116.6	116.6	114.2	114.2	112.0
57.5°	102.8	102.0	99.8	99.8	98.1	97.4	96.6	95.9	94.4	92.8	92.0
60°	86.6	85.1	83.6	82.9	81.2	79.8	78.2	76.8	75.1	74.4	73.6
62.5°	71.4	69.0	67.5	66.8	65.1	62.9	61.4	59.9	58.2	57.5	56.0
65°	57.5	55.2	52.9	52.1	50.6	49.1	46.8	45.2	43.8	43.0	43.0
67.5°	45.2	43.0	39.9	39.9	38.4	36.8	35.2	33.8	33.0	33.8	33.8
70°	33.8	32.2	29.9	29.1	27.6	26.1	25.2	25.2	25.2	26.1	25.2
72.5°	25.2	23.0	21.5	20.8	20.0	19.1	19.1	19.1	18.4	19.1	19.1
75°	17.6	16.1	14.6	14.6	13.8	13.8	13.8	13.8	13.8	13.8	13.8
77.5°	12.2	10.8	10.0	10.0	10.0	9.2	9.2	9.2	9.2	9.2	9.2
80°	7.6	7.6	6.9	6.9	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	4.6	4.6	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	2.2	2.2	2.2	2.2	2.2	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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CATALOG NUMBER: LE\_6B10D010 EC6B10209040 6LBLWW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	545.2	547.5	544.5	546.8	546.0	545.2	543.8	546.8
5°	536.0	536.9	533.8	536.9	536.0	534.5	533.0	536.0
7.5°	523.0	525.4	521.5	524.5	523.8	522.2	520.8	523.8
10°	508.5	510.8	507.6	510.0	510.0	508.5	506.1	509.2
12.5°	492.4	493.9	490.8	493.9	493.1	491.6	490.8	493.1
15°	474.8	477.0	473.9	476.2	475.5	474.8	473.9	476.2
17.5°	455.5	457.9	455.5	457.9	457.9	455.5	454.8	456.2
20°	436.4	437.9	435.6	437.9	437.1	437.1	435.6	437.9
22.5°	414.9	417.1	415.6	417.1	416.4	416.4	415.6	417.1
25°	393.4	395.8	393.4	395.8	395.0	395.0	393.4	397.2
27.5°	372.0	373.5	371.1	374.2	373.5	372.0	372.8	373.5
30°	348.9	350.5	348.9	351.2	351.2	351.2	349.8	351.2
32.5°	325.9	328.2	325.9	328.2	327.5	327.5	326.8	328.2
35°	302.9	303.8	302.1	304.5	304.5	305.2	303.8	306.0
37.5°	279.1	279.9	279.1	279.9	281.5	279.1	280.6	281.5
40°	254.6	256.1	255.4	256.1	256.1	256.9	256.1	256.9
42.5°	230.1	231.6	230.1	232.4	231.6	231.6	232.4	232.4
45°	204.8	207.0	205.5	207.0	207.9	207.0	207.0	208.6
47.5°	181.0	182.5	181.8	182.5	182.5	182.5	182.5	184.0
50°	157.2	158.0	158.0	158.8	158.8	159.5	158.0	158.8
52.5°	133.5	135.0	135.0	135.0	134.2	135.0	135.0	135.0
55°	112.0	112.8	111.2	112.8	112.8	112.0	112.0	113.5
57.5°	91.2	91.2	91.2	91.2	91.2	90.5	91.2	91.2
60°	72.1	72.9	72.1	72.1	72.1	72.1	71.4	72.9
62.5°	56.0	56.0	55.2	56.0	56.0	56.0	56.8	56.8
65°	43.8	44.5	43.8	44.5	44.5	44.5	44.5	45.2
67.5°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
70°	26.1	26.1	26.1	26.9	26.1	26.1	26.1	26.9
72.5°	19.1	19.1	19.1	19.1	19.1	19.1	20.0	20.0
75°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8
77.5°	9.2	9.2	9.2	10.0	9.2	10.0	9.2	9.2
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)